

CLAIMS

What is claimed is:

1. A headrest assembly comprising:
 - a first housing;
 - a second housing rotatably supported by the first housing;
 - a cross member rotatably supported by said first housing; and
 - a locking mechanism operable between a locked position and an unlocked position, said locking mechanism engaging said second housing in said locked position to lock said second housing in one of a plurality of positions relative to said first housing and disengaged from said second housing in said unlocked position to allow said second housing to rotate relative to said first housing.
2. The headrest assembly of Claim 1, further comprising an adjustment bar, said adjustment bar fixedly attached to said first housing and operable to attach the headrest assembly to an external structure.
3. The headrest assembly of Claim 1, wherein said locking mechanism includes a pair of posts, said pair of posts operable to engage said second housing in said locked position to prevent rotation of said second housing relative to said first housing and to disengage said second housing in said unlocked position to permit rotation of said second housing relative to said first housing.

4. The headrest assembly of Claim 3, wherein said posts are fixedly attached to said first housing.

5. The headrest assembly of Claim 3, wherein said first housing includes a plurality of apertures, said plurality of apertures operable to matingly receive said posts in said locked position to position said second housing in one of an upright position, a partially reclined position, and a fully reclined position when said locking mechanism is in said locked position.

6. The headrest assembly of Claim 5, wherein said partially reclined position fixes said second housing substantially at a 25° angle relative to said first housing.

7. The headrest assembly of Claim 1, further comprising a spring, said spring operable to bias said locking mechanism into said locked position.

8. The headrest assembly of Claim 1, wherein said second housing includes an arcuate slot, said arcuate slot operable to guide rotation of said second housing relative to said first housing.

9. The headrest assembly of Claim 8, wherein said first housing includes a guide pin, said guide pin slidably received by said arcuate slot to define a range of motion of said second housing relative to said first housing.

10. The headrest assembly of Claim 1, further comprising an actuation handle fixedly attached to said cross member, said actuation handle operable to transmit a rotational force to said second housing via said cross member to rotate said second housing relative to said first housing when said locking mechanism is in said unlocked position.

11. The headrest assembly of Claim 1, wherein said cross member is fixedly attached to said second housing.

12. A seat assembly comprising:

a seat bottom;

a seatback rotatably supported by said seat bottom; and

a headrest assembly supported by said seatback, said headrest assembly

including:

a first housing;

a second housing rotatably supported by the first housing;

a cross member fixed to said second housing and rotatably supported by said first housing; and

a locking mechanism operable between a locked position and an unlocked position, said locking mechanism engaging said second housing in said locked position to lock said second housing in one of a plurality of positions relative to said first housing and disengaged from said second housing in said unlocked position to allow said second housing to rotate relative to said first housing.

13. The seat assembly of Claim 12, further comprising an adjustment bar, said adjustment bar fixedly attached to said first housing and slidably received by said seatback to selectively position the headrest assembly in one of a plurality of positions relative to said seatback.

14. The seat assembly of Claim 12, wherein said locking mechanism includes a pair of pins fixedly attached to said first housing.

15. The seat assembly of Claim 14, wherein said locking mechanism includes a plurality of apertures formed in said second housing, said plurality of apertures adapted to matingly receive said posts in said locked position to lock said second housing in one of a plurality of positions relative to said first housing.

16. The seat assembly of Claim 15, further comprising an actuation handle, said actuation handle fixedly attached to said cross member and operable to transmit a rotational force to said second housing via said cross member to rotate said second housing relative to said first housing when said locking mechanism is in said unlocked position.

17. The seat assembly of Claim 12, further comprising a spring disposed between said first housing and said cross member, said spring operable to bias said second housing into said locked position.

18. A seat assembly comprising:
a seat bottom;
a seatback rotatably supported by said seat bottom; and
a headrest assembly supported by said seatback, said headrest assembly including:

a first housing;
a second housing rotatably supported by said first housing; and
a cross member fixedly attached to said second housing, said cross member operable to selectively move said second housing into engagement with said first housing to selectively restrict rotation of said second housing relative to said first housing.

19. The seat assembly of Claim 18, wherein said first housing includes a pair of posts fixedly attached thereto.

20. The seat assembly of Claim 19, wherein said second housing includes a plurality of locking apertures, said locking apertures operable to matingly receive said posts to selectively restrict rotation of said second housing relative to said first housing.

21. The seat assembly of Claim 20, wherein said posts include a tapered surface to facilitate engagement with said locking apertures.

22. The seat assembly of Claim 18, further comprising a spring, said spring operable to bias said second housing into engagement with said first housing.

23. The seat assembly of Claim 18, wherein said second housing includes an arcuate slot.

24. The seat assembly of Claim 23, wherein said first housing includes a pin fixedly attached thereto, said pin slidably received by said arcuate slot to define a range of motion of said second housing relative to said first housing.

25. The seat assembly of Claim 18, further comprising an actuation handle fixedly attached to said cross member, said actuation handle operable to transmit an applied force to said second housing via said cross member to both disengage said second housing from engagement with said first housing and to rotate said second housing relative to said first housing.